

FINAL REVISION



ICT

INFORMATION
& COMMUNICATION
TECHNOLOGY



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الصف الخامس الابتدائي
الفصل الدراسي الأول

طبقاً لأحدث مواصفات الورقة الامتحانية ٢٠٢٤ - ٢٠٢٥
للمدارس الرسمية والخاصة لغات

Contents

Part 1

An hour before the exam

تمكن من مراجعة منهجك في ساعة واحدة قبل الامتحان

Part 2

5 Sample Tests

اختبارات على المنهج بالكامل



PART

1

An hour before the exam





THEME 1

Quick Look

An hour before the Exam

تمكن من مراجعة منهجك في ساعة واحدة قبل الامتحان



Important Points

أهم النقاط في المحور الأول

1 “What is the Internet of Things ?”

- The Internet of Things (IOT) consists of devices linked to the internet via Wi-Fi.
- These devices can be controlled, whether you're in the same room or in another city !

2 “Networks and people of determination”

- They give people of determination more independence, both at home and in public.
- This independence helps them to save money and time.
- It also helps to increase confidence levels

3 “Fred Hiebert”

- Fred Hiebert uses Word and, Excel to prepare and show graphs and PowerPoint to make presentations and write reports.

4 “Following a process”

- Follow this troubleshooting process to help with computer problems.
 - (a) Identify the problem.
 - (b) Think about and plan different ways you might solve the problem.
 - (c) Go through your potential solutions to the problem.
 - (d) Which solution worked ?
 - (e) If you do not find a solution to the problem. You should ask your teacher or a member of your family for help.

5 “Communicating with ICT tools”

- When sharing information online, you must decide which information should be shared using an intranet network or the internet.



Important Definitions

أهم التعريفات في المحور الأول

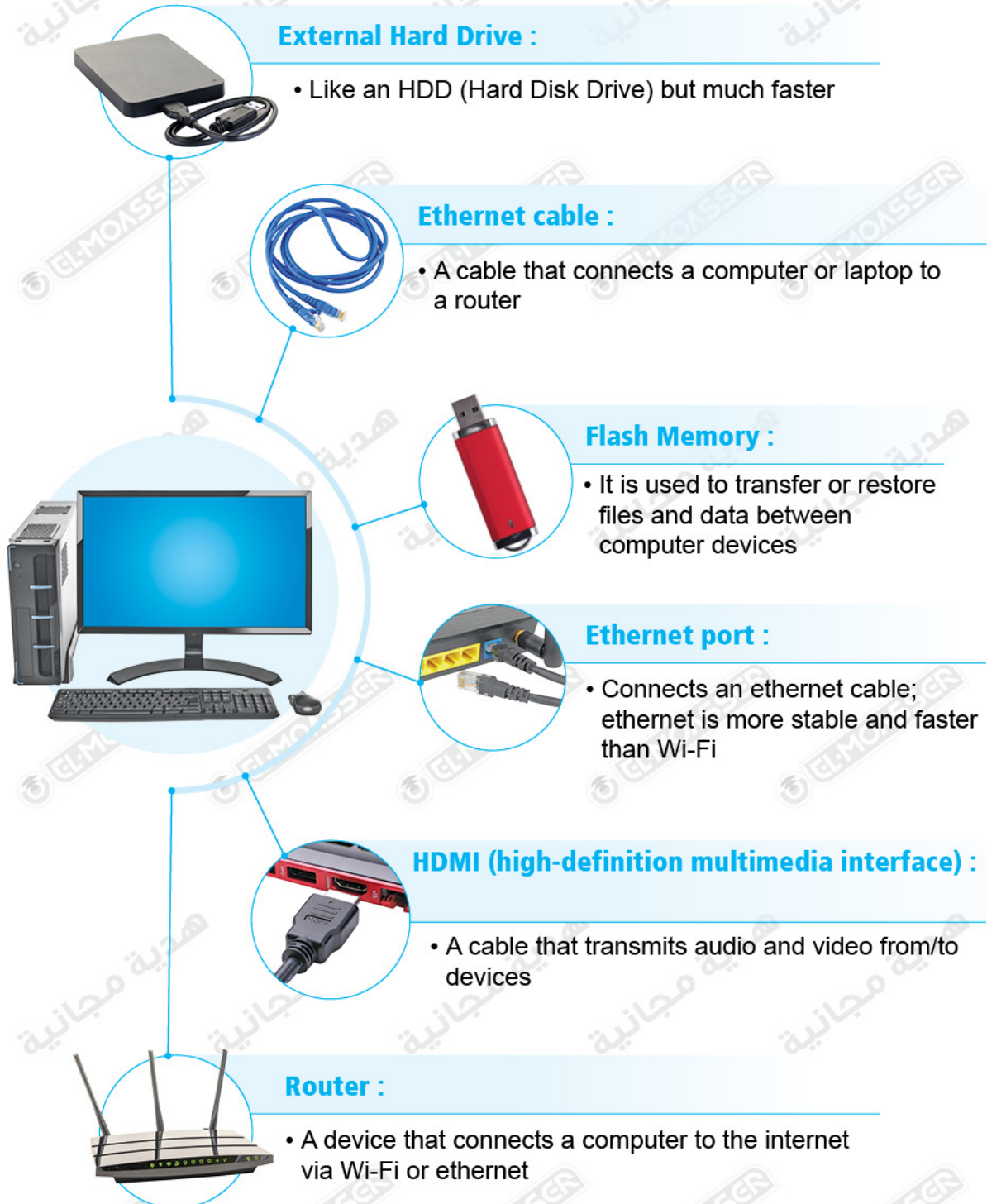
Word	Definition
Gateway	<ul style="list-style-type: none"> - It is a gateway to connect your computer to the internet. - It is a tool to connect the internet such as a router.
Internet Service Provider (ISP)	- It is the internet service provided by Egyptian companies to citizens.
Router	It connects your computer to an ISP.
The World Wide Web (WWW)	It's part of the internet networks made up of web pages that people can navigate.
The Egyptian Knowledge Bank (EKB)	It's on the (WWW) and it is available for free to all Egyptians who register on the site.
Intranet	Unlike the internet. It's private, restricted to only those that are part to the business, school, or organization that it is connecting.
Cable	A long connect or that transmits data or power between devices, such as ethernet cable.
Internet of things (IOT)	House hold items can be part of a network, too.
Bluetooth	Bluetooth is a networking technology that connects wireless mobile devices over a short range to form a network to transmit data between different devices.

Potential computer problems and solutions

مشكلات الكمبيوتر المحتملة وحلولها

Problem	Potential reasons	Solution
1. Trouble processing large files, like a big PowerPoint presentation	Not enough graphics storage	Shut down some programs
2. Not able to store files	Not enough space	Move old files to an external drive
3. A poor video-conference connection	Slow wireless internet connection	Try an ethernet connection
4. Home internet connection not working	Connection interrupted	Use ethernet or contact ISP

The main computer hardware components :



Units of measurements

bit	the smallest unit of data
byte (B)	1 byte = 8 bits = 1 character; the word "cat" has three letters and would need three bytes.
Kilobytes	1,024 (B)
Megabyte (Mb)	1,024 (KB)
Gigabyte (Gb)	1,024 (MB)
Terabyte	1,024 (GB)
Mbps	Megabits per second; measures the speed of a network or internet connection (the faster the speed, the better)
GigaHertz (GHz)	measures the number of cycles your CPU carries out per second; (the higher the number, the faster the speed, the better).

Types of computer Networks

1 Local Area Network (LAN)

- When a computer connected to another computer or device such as a printer or router then you have your own personal local area network.

a printer



router



- It could be at  home, at  school or in a  hospital.

2 Internet

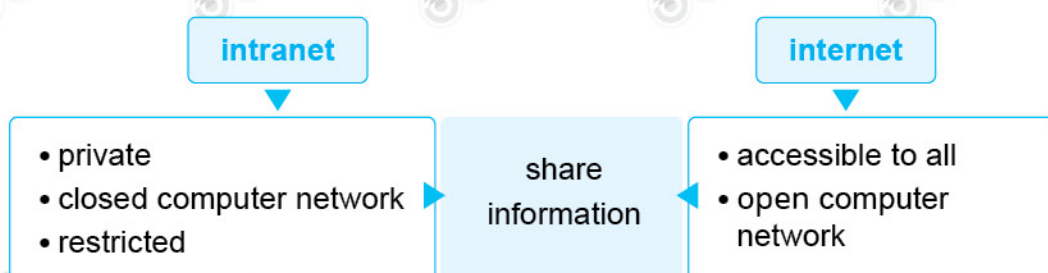
- It is a network that connects computers, and the people using them, from all around the world.



Types of Networks divided into

Network	Description	Examples
open network	<ul style="list-style-type: none"> - It is opened. - It is accessible to all. 	The Internet.
closed network	<ul style="list-style-type: none"> - It may only have computers linked by cables to allow for file sharing. 	School's computer lab.

Comparison between intranet and internet networks



► Ways that people can use networks to communicate :



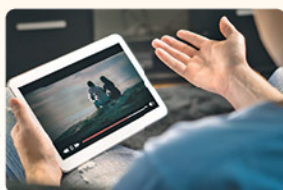
send a text



buy something



take an online class



download or upload a video



use an app or program

► There are devices that can be turned on / off using specific apps:

Bluetooth speakers



Digital washing machine



Digital refrigerator



Home appliances

History of using the internet

80s dial-up internet connection

1. They used phone line to connect to internet
2. They couldn't use phone when on the internet
3. The connection was slow but stable



(late 80s Digital subscriber line (DSL

1. A high-speed connection
2. It uses the same home phone wires to connect to the internet.
3. It allows the phone and the internet to be used simultaneously.



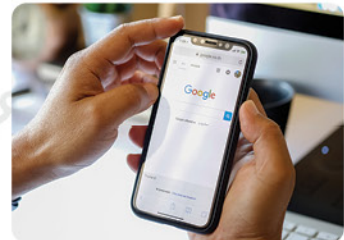
90s

1. Emergence of the World Wide Web (abbreviated to WWW)
2. It is a large set of web pages that are linked to each other using hyperlinks.



2000+

1. Wi-Fi devices become popular.
2. Now it can access internet from your smartphone - portable internet service
3. Hotspots to allow you to access the internet anywhere on smartphone can help provide internet service to other devices you may have as well.



• Helping people who are visually impaired through.



Screen reader and Braille

to

- do schoolwork online.
- read braille.
- accessing documents.



E-commerce

to

- shop and sell online.
- It makes life so much easier for everyone.



Digit Privacy

to

- be safe about giving information online.

► Common computer problems and possible solutions :

Problem	Possible solutions
<p>1. Computer slows down when opening an app</p> 	<ul style="list-style-type: none"> ► Shut down and restart it. ► Check for software updates. ► Delete unwanted apps.
<p>2. Browser running slow</p> 	<ul style="list-style-type: none"> ► Check Wi-Fi signal. ► Make sure to update the apps on your device.
<p>3. No internet connection</p> 	<ul style="list-style-type: none"> ► Use the software to troubleshoot your Wi-Fi connection. ► Check that the router is connected. ► Restart your router. ► Try a new ethernet cable. ► Contact the customer service of your ISP for help.
<p>4. Slow to download</p> 	<ul style="list-style-type: none"> ► Restart your computer and router. ► Check the internet speed.

How we can find information



QR code



School Library



The internet

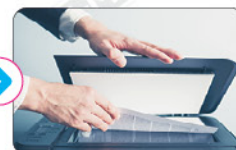


TV programs

How save and store information ?

Scanner

We use the images scanner and save images for later use.



Digital camera

We can take photos and videos and store them.



Flash memory

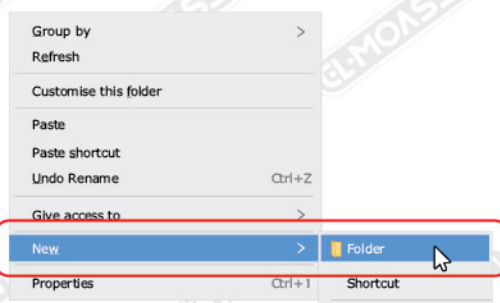
We store and share information.



How to organize using ICT tools

1 Create the main folder

- First ▶ right click
- Second ▶ click (New)
- Third ▶ click (Folder)

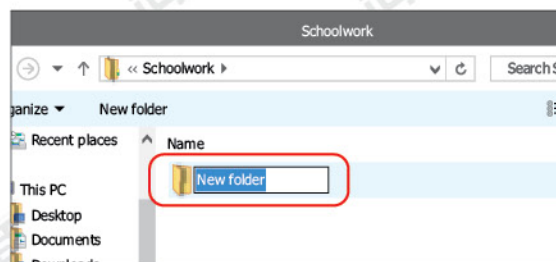


2

Add sub-folders

We can add sub-folders inside the main folder.

- First ▶ Open the main folder
- Second ▶ Right click
- Third ▶ Select New folder



3

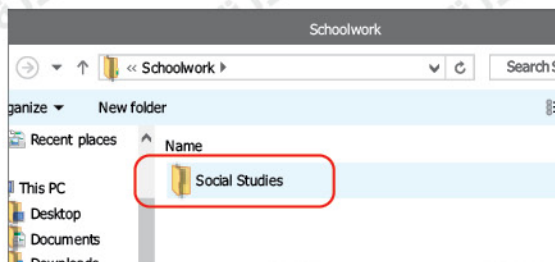
Give each File a name

You should give each folder a name.



First ▶ Right click

Second ▶ Select Rename

Third ▶ Type the name, then press Enter



Compare between intranet network and internet :

Intranet	Internet
- An intranet is used to share in a closed network.	- The internet is used to share over the web.
- It is more secure.	- It's less secure.
	

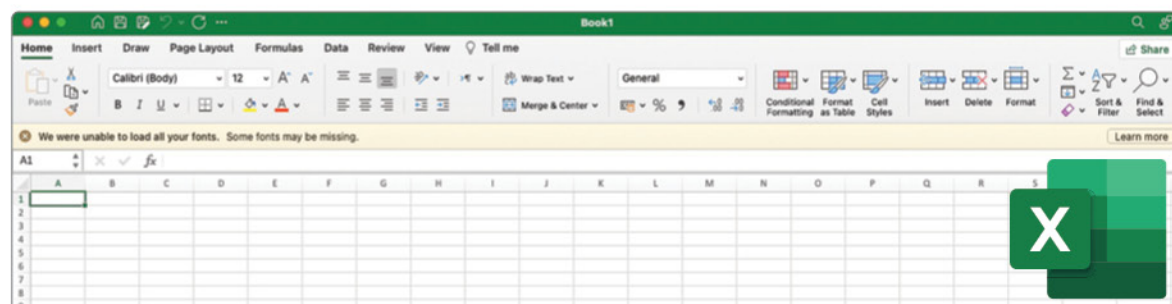
Use Microsoft Excel :

▶ **Sorting info in alphabetical order**

▶ Go to the toolbar.

▶ Click on Data.

▶ Then click on Sort.



▶ **You can set formulas in cells to add(+), subtract(-), multiply (x), or divide (/) :**

▶ **Click on the cell you want to set a formula.**

• Type «=». This tells Excel you are creating a formula.



THEME 2

Quick Look

An hour before the Exam

تمكن من مراجعة منهجك في ساعة واحدة قبل الامتحان



Important Points

أهم النقاط في المحور الثاني

1 Personally Identifiable Information (PII) :

- Hackers can use someone's email address and password to send a virus to all the email addresses in your email accounts.
- To keep your PII safe using anti-virus software on all of your devices, don't sign up for a website if it asks for too much personal information and use different strong passwords.

2 Lost files :

- You should know how to protect the files that you create or store on a device from viruses, software problems, or human errors, such as dropping and breaking your laptop.

3 Phishiny scam :

- Another type encourages you to act quickly. When an attachment, or a file is opened, data-stealing software is installed on the person's computer, or the user is asked to enter sensitive information such as bank account details.

4 Multi-factor authentication :

- When you log into the game website on a different PC to your usual (permanent) PC :
 - a. You will be sent a text message to your mobile asking you to confirm that you are the person who owns the email address that you are logging in as.
 - b. The text message will include a number code which will give you access to your account and it is specified a short period of time and for one time only.

5 Scam websites :

- These websites can be phishing websites that present situations that try and get your information.
- Types of scam websites :
 - a. Online shopping sites that never send you the correct items you bought.
 - b. Scareware websites that say your computer has a problem and you need to download something.
 - c. Sweepstakes scam that offers you a prize that never comes.

6 How scam websites operate :

- First, they try and bait you.
- Next, they try and compromise your privacy by getting your personal information.
- Finally, they exploit the information they have gained about you in a bad way, or the possibility to hack your device to make themselves money.
- Each time it will look different, but all scam websites follow these basic principles.

7 Dissecting the URL :

- All URLs are made up of three main parts protocol → resource name → File path.
- You should understand the different parts of a URL so you can spot something that doesn't look right.

8 Copyright :

- Copyright protects creator's work.
- Copyright also protects : images, music, movies, games, computer software and websites.
- The international symbol for copyright is the letter C with a circle around it © .

9 What is Not covered by copyrights ?”

- work in the public domain
- facts
- discoveries
- official documents such as laws
- creative works whose owner has been dead for 50 years

10 Use multiple sources and facts :

- It's a good decision to use multiple sources in your research.
- This helps make sure you know all the important facts about a topic
- Following copyright rules and laws is also a good decision.

11 Search sources by keyword :

- Press (CTRL + F) on the keyboard
- Enter the term in the search box.
- The keyword will be highlighted everywhere it appears on the page.

12 Using quotes :

- When you include a quote, you :
 - state where the quote came from and why you are using it.
 - can use sentences starters to share this information.
- Quotes support your ideas and arguments.



Important Definitions

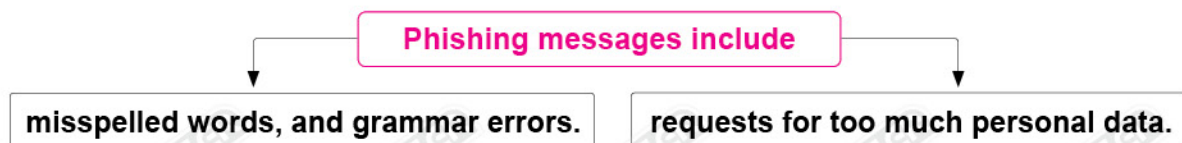
أهم التعريفات في المحور الثاني

Words	Definition
Hackers	Hackers break into a computer system and steal personal information by using the internet.
Personal information	Personal information is called personally Identifiable information (PII) is like : name , address, date of birth , password.
Back up	Back up means make another copy of your work to keep it safe.
Updates	The updates include changes that keep your data safe.
Hybrid back up	It is a safer way to back up and store files by using a data-storage device that you attach to your computer, such as a flash drive or an external hard drive.
Phishing	Phishing is sending a message via e-mail or social media applications that looks real, but isn't.
Smishing	Smishing is the same thing, but it is a text message instead of an e-mail.
Multi-Factor Identification (MFA)	MFA means you provide at least two ways of identifying yourself.
Creative commons	Sometimes the owner of a creative work gives permission to reuse his work at anytime and any place, so we can use it freely.
Creative commons reuse licenses	It means the creator has given permission for their work to be used anytime anywhere.
Public Domain	It includes all creative works not covered by copyright law.
Uniform Resource Locator (URL)	You can go to the site you want by typing the URL.
Online sources	Sources other than text in online articles and encyclopedias may include important information.
Paraphrasing	When you paraphrase, use your own words to explain the ideas of the writer.
Permalink	A highlighted word or a picture you click on to take you to another web location.

ICT tools

أدوات وأجهزة مستخدمة في تكنولوجيا المعلومات

Ways of identifying phishing messages



Password manager

creates a strong, unique password for each of your accounts.

tells you if the passwords you already have are too weak or if you've reused them.

tells you if one of your passwords has been stolen online.



"MFA" often combines

a known factor

With

a factor you have

Password

PIN

(Personal Identification Number)

an email

one-time code

URL (Uniform Resource Locator)

1
Protocol

2
Resource name

3
File Path

<https://www.ekb.com/index.html>

Protocol

Resource name

File Path

► Using reliable sources :

You may be asked to use some of the resources available online to :

answer a question.

identify solutions to a problem.

conduct study research related to a subject.

Know what a fact and an opinion is

Facts

- Come from research and observation.
- They are statements that can be proven.
- They be debated and are true for everyone.

Opinions

- They are based on someone's views and experiences.
- They cannot be proven.
- They can be debated and are not true for everyone.

It's OK if two reliable websites include the same information.

It often means that the facts are true.

Write notes for the first source.

Scan the next source for additional facts to add to your notes.

If two online sources have different information

- Double-check that both sites are reliable.

- Make sure the information is based on fact instead of opinion.

► Paraphrasing mean to :

Change

some of the vocabulary words.

the order of the ideas.

the sentence structure.

- By paraphrasing you are showing respect for the author's work.

Sentence starters to share quotes

In the article
(article title it said...

This shows that...

According to
(author's name)...

This proves that ...

(author's name)
states...

This illustrates ...

Citing sources

RESULT

- At the end of a research report, you list your sources on a Works Cited page.

WHY

- Because websites change, some online sources include a permalink to use as the cited web address.

For a YouTube video

- Use the uploader as the author, the date, the video title followed by the word "video", the site name, and the URL.
- For Example RTV, 2019. Very Nile video. YouTube, https://www.youtube.com/watch?v=yH5SVlgN_gY



احرص على اقتناء

EL-MOASSER كتب

في ICT للمرحلة الابتدائية

امنح ثقتك لمن يستحق

PART

2

5 Sample Tests



Sample Test 1

1 Put [✓] in front of the correct sentence and [X] in front of the wrong one.

1. To solve the problem of inability to store files, we transfer old files to an external storage unit. []
2. The ethernet cable is connects computer to monitor. []
3. To connect your computer to the Internet, you need a gateway. []
4. Router is considered Anti-virus that protects your computer. []
5. E-commerce makes buying and selling operations easier for everyone. []
6. Computer networks give people of determination more independence, both at home and in public. []
7. EKB stands for Egyptian Knowledge Phone. []

2 Choose the correct answer from a, b, c or d.

1. abbreviation of Internet service provider.
a. ESP b. ISP c. ASP d. PSI
2. Suppose you want to multiply a set of values contained in columns A, B, and C from row [2]. What is the correct formula to do this correctly?
a. =A*B*C b. =2A*2B*2C c. =A2*B2*C2 d. =A2B2C2
3. To store the word [wood] on the computer, we need bytes.
a. 3 b. 4 c. 5 d. 6
4. You must if a problem is not solved.
a. despair of solving the problem
b. ask a teacher or an adult
c. the problem should be further complicated
d. causing a bigger problem
5. Use the program to write reports or your CV.
a. Paint b. Word program
c. Spreadsheets Excel d. WhatsApp
6. is a part of the internet network, made up of webpages that people can navigate.
a. Web site b. WWW c. Com d. ORG
7. From the IoT [Internet of Things] devices
a. digital refrigerator b. watch
c. old television d. none of them
8. are protected by copyright.
a. Image b. Books c. All of them d. None of them

Sample Test 2

1 Choose the correct answer from a, b, c or d.

1. When the Browser running slow, you can.....
 - a. Check Wi-Fi signal
 - b. Restart computer
 - c. Shutdown the computer
 - d. None of them
2. The term..... refers to devices connected to the Internet that can be controlled remotely.
 - a. Digital fingerprint
 - b. Scanner
 - c. Internet of Things [IOT]
 - d. Digital Privacy
- 3..... is a long connector that transmits data or power between devices.
 - a. Ethernet cable
 - b. Local Area Network [LAN]
 - c. Open network
 - d. Router
4. The technology that connects wireless mobile devices over a short range to form a network called.....
 - a. router
 - b. sharing
 - c. Bluetooth
 - d. scanner
5. To create folder, right click then select..... then folder.
 - a. Open
 - b. New
 - c. Save
 - d. Print
- 6..... helps us to access the information by scanning with the mobile camera.
 - a. QR
 - b. QRR
 - c. RQ
 - d. LAN
- 7..... is used to sort data alphabetical and organizing data.
 - a. Excel
 - b. Word
 - c. PowerPoint
 - d. Paint

2 Put [✓] in front of the correct sentence and [x] in front of the wrong one.

1. The cell B5 located in column [5] and row [B]. []
2. It is difficult for people of determination to follow their lessons online. []
3. The Egyptian Knowledge Bank [EKB] is available for free o to all Egyptians registered on the site. []
4. Restarting the router is one of the ways of solving the problem of slow download. []
5. Braille makes reading more difficult for people of determination. []
6. Identifying the problem is the final step in solving computer problems. []
7. We need three bytes to store the word "Cat" on the computer. []
8. The Network LAN refers to the global network that connects computers all over the world. []

Sample Test 3

1 Choose the correct answer from a, b, c or d.

- is the smallest unit of data inside a computer.
a. Giga Byte b. Byte c. Bit d. Mega Byte
- refers to a group of people or things related to each other for a common purpose.
a. Piracy b. Networks
c. Gates d. Orientation permit.
- can use someone's email address and password to send a virus to all the email addresses in your email account.
a. Hacker b. Biologist
c. Computer engineer d. Teacher
- considered strong password.
a. 12345678 b. A123A\$%2 c. abcdefg d. abc123
- Zoom is used to hold meetings.
a. between two people only b. virtual
c. face to face d. via Facebook
- they say your computer has a problem and you need to download something.
a. Shopping sites b. Scareware sites
c. Sweepstakes d. Scam websites
- You must be careful when visiting
a. well know websites b. new website
c. the trusted websites d. none of them
- The international symbol for copyright is the letter it.
a. C with a circle around b. R with a circle around
c. I with a circle around d. O with a circle around

2 Put [✓] in front of the correct sentence and [x] in front of the wrong one.

- The QR code is used to obtain information faster. []
- The router connects the computer to the Internet via Wi-Fi or Ethernet cable. []
- Your internet service provider (ISP) is blocking access to the Internet. []
- A Creative Commons reuse license means the creator has given permission for their work to be used anytime and anywhere. []
- The public domain includes all creative works not covered by copyright law. []
- It's a good decision to use multiple sources in your research. []
- EKB website is one of unreliable sources. []

Sample Test 4

1 Put [✓] in front of the correct sentence and [X] in front of the wrong one.

1. The higher the network speed, the worse it gets. []
2. The symbol [/] represents the division process in the Excel program. []
3. Word enables virtual meetings. []
4. Facts cannot be proven, but they can be debated. They are not true for everyone. []
5. When paraphrasing, you can reorder the ideas. []
6. Permalink is abbreviation of permanent hyperlink. []
7. Use antivirus software on all your devices and update your devices regularly to protect your files. []
8. Limit the personal information you share online from the ways of protecting your personal data online. []

2 Choose the correct answer from a, b, c or d.

1. It is possible to sort information and data in Microsoft Excel program through the tab.
a. Data b. Review c. Insert d. View
2. means use your own words to explain the ideas of the writer [author].
a. Paraphrasing b. Rewriting c. Reading d. Writing
3. Select Folder from New to create a new
a. Video b. File c. Title d. Folder
4. The Bluetooth speaker is an example of.....
a. Internet of Things b. Cloud storage
c. Online shopping d. E-commerce
5. cannot be proven, but they can be debated. They are not true for everyone.
a. Facts b. Opinion c. Reliable d. Trusted
6. protects creators' work.
a. Word program b. Internet c. Copyright d. All websites
7. MFA means you provide at least ways of identifying yourself.
a. one b. two c. three d. Five

Sample Test 5

1 Choose the correct answer from a, b, c or d.

- considered strong password
a. 12345678 b. A123A\$%2 c. abcdefg d. abc123
- Each of the following is one of the possible solutions to overcome the slow running of the application on the device, except.....
a. Restart the device b. Verify the software update
c. Delete unwanted applications d. Replace headphones
- To perform a calculation in Microsoft Excel program, you must write the sign at the beginning of the cell.
a. * b. ? c. \$ d. =
- Taking the highest security standards when providing personal information online is known as.....
a. E-commerce b. Cloud storage
c. Online shopping d. Digital privacy
- The phishing message can be identified by.....
a. correct grammar b. corrects spelling
c. spelling errors d. none of them
- like an HDD [Hard Disk Drive] but much Faster
a. Router b. External Hard Drive
c. Cables d. DVD
- is a network that connects computers, and the people using them, from all around the world.
a. Keyboard b. Internet
c. Closed Network d. Printer
- The IoT [Internet of Things] consists of devices linked to the internet via.....
a. Wi-Fi b. global c. closed d. public

2 Put [✓] in front of the correct sentence and [x] in front of the wrong one.

- Rows in Excel are labeled with letters. []
- You can use spreadsheet software to prepare charts or graphs. []
- Collaborating with colleagues in the classroom when conducting research is not important. []
- Mbps abbreviation Giga Hertz. []
- It is possible to connect the computer device and the router device using Ethernet cable. []
- From the classifications of network, open and closed network. []
- When using copyright content, you mustn't mention the name of the writers. []